

Iris Mowgood

For most recent publications, visit: www.irismowgood.com
Email: irismowgood@gmail.com

EDUCATION

CHAPMAN UNIVERSITY
PHD IN COMPUTATIONAL
AND DATA SCIENCES
Expected Grad. 2023
| Orange, CA USA

CAL STATE FULLERTON
M.Sc IN PHYSICS
Grad. 2016 | Fullerton, CA USA

UC SANTA CRUZ
B.Sc IN PHYSICS EDUCATION
Grad. 2013 | Santa Cruz, CA USA

SOFTWARE

PROGRAMS

Comsol Multiphysics
Matlab
Mathematica
Adobe Suite

LANGUAGES

Python
R
C++
Java

COURSEWORK

GRADUATE

Data Mining
Mathematical Modeling
Multivariate Analysis
Solid State Physics
Quantum Mechanics

SKILLS

- Data Visualization
- Time-dependent Modeling
- Statistical Analysis
- 3D Printing
- Building / Upgrading PCs
- Client API
- Communication and Outreach

EXPERIENCE

INSTITUTE FOR QUANTUM STUDIES | RESEARCH ASSISTANT

September 2018-Current | Remote Work

- Working remotely, under the supervision of Dr. Armen Gulian, modeling superconductivity using Comsol Multiphysics and automating modeling tasks with Matlab.

GOLDEN WEST COLLEGE | ADJUNCT LECTURER

January 2022 - June 2022 | Huntington Beach, CA

- Courses taught: Introduction to Astronomy lecture, and Algebra-Based Electromagnetism Physics lecture and lab.

CHAPMAN UNIVERSITY | ADJUNCT PHYSICS LECTURER

September 2016 – December 2018 January 2022-Current | Orange, CA

- Courses taught: Calculus-Based Mechanical Physics for Life Science Students lecture and lab, Calculus-Based Electromagnetism Physics for Life Science Students lecture.

PHYSICS DEPT. OF CAL STATE FULLERTON | ADJUNCT LECTURER

September 2019 - June 2020 | Fullerton, CA

- Courses taught: Introduction to Astronomy.

ORANGE COAST COLLEGE | ADJUNCT LECTURER

September 2016 – June 2018 | Costa Mesa, CA

- Instructor for the Physics and Astronomy Department. Courses taught: Mechanical Physics lecture and lab, Conceptual Physics lecture, and Introductory Astronomy lab.

CYPRESS COLLEGE | ADJUNCT LECTURER

January 2017 – June 2017 | Cypress, CA

- Instructor for the Physics Department. Courses taught: Elementary Physics lecture and lab.

PUBLICATIONS

VIOLETION OF MAGNETIC FLUX CONSERVATION BY SUPERCONDUCTING NANORINGS

FEBRUARY 17TH 2022

Iris Mowgood et al 2022 Supercond. Sci. Technol. 35 045006

GRAVITATIONAL WAVE SENSORS BASED ON SUPERCONDUCTING TRANSDUCERS

NOVEMBER 8TH 2021

Armen Gulian et al Phys. Rev. Research 3, 043098